OSPF AUTONOMOUS SYSTEM WITH A BACKBONE DIVIDED INTO TWO SUB-AREAS

Abstract

Data communication system of the type wherein a plurality of contiguous transmission networks constitute an Autonomous System (AS) using the Open Shortest Path First (OSPF) protocol for the exchange of information. The system is divided into several areas including an area 0 or backbone responsible for distributing routing information between the other areas. The backbone is divided into two sub-areas and comprises at least a pair of adjacent splitting routers. The first splitting router is included in one sub-area and the second splitting router is included in the other sub-area. The topological data base of each splitting router is configured to define a high metric for the link between the splitting routers in order to prevent any type of data traffic other than link-state messages (LSA) from being transmitted between the splitting routers.